Missouri Department of Higher Education

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## NEW PROGRAM PROPOSAL FORM

**Sponsoring Institution(s):** Ranken Technical College

**Program Title:** Diesel Technology

**Degree/Certificate:** Associate of Technology

**Options:** Click here to enter text.

**Delivery Site(s):** 755 Parr Road, Wentzville, MO 63385

**CIP Classification:** 47.0605

*CIP code can be cross-referenced with programs offered in your region on MDHE's program inventory highered.mo.gov/ProgramInventory/search.jsp

**Implementation Date:** August 2015

**Cooperative Partners:** Click here to enter text.

*If this is a collaborative program, form CL must be included with this proposal

**AUTHORIZATION:**

| Donald J. Pohl/Executive Vice President | [signature] | 2-21-2016 |
|---|---|---|
| Name/Title of Institutional Officer | Signature | Date |
| June Poletti | 314-286-4817 | |
| Person to Contact for More Information | Telephone | |

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## STUDENT ENROLLMENT PROJECTIONS

| Year | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| Full Time | 50 | 98 | 98 | 98 | 98 |
| Part Time | | | | | |
| Total | 50 | 98 | 98 | 98 | 98 |

Please provide a rationale regarding how student enrollment projections were calculated:

Year 1 is based on current enrollment. The program is projected to reach capacity of 98 in year two and maintain the going forward.

Provide a **rationale** for proposing this program, including **evidence of market demand and societal need supported by research:**

With a projected steady increase in new diesel technician jobs in the next ten years, the U.S. Department of Labor notes that employers prefer applicants who have completed postsecondary training programs in diesel engine repair. Annual projected job openings in the state of Missouri for Bus and Truck Mechanics and Diesel Engine Specialists is 160. Projected growth from 2012 to 2022 is an average of 8% per year.

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## PROGRAM STRUCTURE

A. Total credits required for graduation: 72

B. Residency requirements, if any: _____

C. General education: Total credits: 24

Courses (specific courses OR distribution area and credits):

| Course Number | Credits | Course Title |
|---|---|---|
| ENG1101 | 3 | College Composition I |
| ENG2102 | 3 | College Composition II |
| COM1105 | 3 | Oral Communications |
| SOC1206 or PSY1206 | 3 | Principles of Sociology OR Introduction to Psychology |
| MTH1110 | 3 | Elementary Algebra |
| MTH1111 | 3 | Intermediate Algebra |
| MNG1224 | 3 | Automotive Business & Management |
| BUS1000 | 3 | Career Success Skills |
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D. Major requirements: Total credits: 48

| Course Number | Credits | Course Title |
|---|---|---|
| DSL1000 | 12 | Diesel Foundations |
| DSL1200 | 12 | Diesel Electronics & Engine Controls |
| DSL2000 | 12 | Diesel Brakes & Chassis |
| DSL2020 | 12 | Diesel Drivetrain & Auxiliary Systems |
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E. Free elective credits:
none
(Sum of C, D, and E should equal A.)

F. Requirements for thesis, internship or other capstone experience:
none

G. Any unique features such as interdepartmental cooperation:
none

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# PROGRAM CHARACTERISTICS AND PERFORMANCE GOALS

Institution Name Ranken Technical College
Program Name Diesel Technology
Date 3-21-16

(Although all of the following guidelines may not be applicable to the proposed program, please carefully consider the elements in each area and respond as completely as possible in the format below. Quantification of performance goals should be included wherever possible.)

**1. Student Preparation**

- Any special admissions procedures or student qualifications required for this program which exceed regular university admissions, standards, e.g., ACT score, completion of core curriculum, portfolio, personal interview, etc. Please note if no special preparation will be required.
  No special preparation will be required. Students must complete an application; submit a copy of their high school diploma, final high school transcript or GED certificate; take the Compass Placement Test for Reading, Math and Writing or submit ACT scores in Reading (16 or higher), Math (17 or higher) and composition (7 or higher); pay the $95 non-refundable registration fee.

- Characteristics of a specific population to be served, if applicable.
  None.

**2. Faculty Characteristics**

- Any special requirements (degree status, training, etc.) for assignment of teaching for this degree/certificate.
  • Five years of full time employment as a Diesel/Heavy equipment mechanic. • Master ASE Certification required. • Bachelor's degree in Automotive Technology and 2,000 hours of field experience; OR AS degree in Diesel Technology and 8,000 hours of field experience; OR Master ASE Certification, and 18,000 hours of field experience. • Community college or technical school teaching experience preferred.

- Estimated percentage of credit hours that will be assigned to full time faculty. Please use the term "full time faculty" (and not FTE) in your descriptions here.
  Each full time faculty member teaches one 12-credit hour course.

- Expectations for professional activities, special student contact, teaching/learning innovation.

Faculty are expected to travel to area schools and industry to promote the program. Work closely with program advisory committee to maintain and enhance curriculum and assess program outcomes.

**3. Enrollment Projections**

- Student FTE majoring in program by the end of five years.
  We expect to have 98 students enrolled in various levels of completion during year five of the program.

- Percent of full time and part time enrollment by the end of five years.
  100 % full time enrollment

**4. Student and Program Outcomes**

- Number of graduates per annum at three and five years after implementation.
  Year 3: 50 graduates Year 5: 100 graduates

- Special skills specific to the program.
  Graduates earning the associate of technology or associate of science will be able to: • Service, maintain and repair on-highway truck/tractor systems • Execute shop and environmental safety guidelines • Obtain a class "B" commercial drivers license

- Proportion of students who will achieve licensing, certification, or registration.
  It is expected that there will be 50-75% of the graduates obtaining ASE certification in the next 3-3 years.

- Performance on national and/or local assessments, e.g., percent of students scoring above the 50th percentile on normed tests; percent of students achieving minimal cut-scores on criterion-referenced tests. Include expected results on assessments of general education and on exit assessments in a particular discipline as well as the name of any nationally recognized assessments used.
  Students will take two ASE tests – A1 Engines and A6 Electrical

- Placement rates in related fields, in other fields, unemployed.
  There is no data on file at this time.

- Transfer rates, continuous study.
  Graduates of this program will begin working upon completion of program and not expected to transfer or continue study.

**5. Program Accreditation**

- Institutional plans for accreditation, if applicable, including accrediting agency and timeline. **If there are no plans to seek specialized accreditation, please provide a rationale.**
  Ranken Technical College is accredited by The Higher Learning Commission. The Diesel Technology program will seek NATEF (National Automotive Technician Education Foundation) certification.

**6. Alumni and Employer Survey**

- Expected satisfaction rates for alumni, *including timing and method of surveys.*
  Many alumni serve on departmental advisory boards that provide advice and information to keep faculty up to date on recent trends in industry.

- Expected satisfaction rates for employers, including timing and method of surveys.
  Employers who hire graduates are invited to serve on departmental advisory boards that provide advice and information to keep programs up-to-date on recent trends in their industry. These vital contributions ensure that Ranken's curriculum stays on the leading edge of the industries we serve.

**7. Institutional Characteristics**

- Characteristics demonstrating why your institution is particularly well-equipped to support the program.
  Through a unique combination of classroom education and hands-on instruction, each student is fully educated to be successful in his or her technical field of choice. Our education formula is founded on success and career development. The formula for a student's success is based upon three equal components: technical education, general education, and work ethic.